
Product Data Sheet

Product Name: JH-LPH-28

Cat. No.: GC69313

Chemical Properties

Cas. No. 2414592-36-0

Formula $C_{21}H_{21}F_4N_3O_3S$

M.Wt 471.47

Solubility DMSO : 12.5 mg/mL (26.51 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

JH-LPH-28, a sulfonyl piperazine analog, is a potent UDP-2,3-diacylglucosamine pyrophosphate drolase **LpxH** inhibitor. JH-LPH-28 displays outstanding **antibiotic** activity with a MIC value of 0.83 $\mu\text{g/mL}$ ^[1].

JH-LPH-28 displays IC₅₀ values of 0.11 μM against *K. pneumoniae* LpxH and 0.083 μM against *E. coli* LpxH, respectively^[1].

JH-LPH-28 potently inhibits bacterial growth at 2.8 $\mu\text{g/mL}$ and displays a MIC value of 1.6 $\mu\text{g/mL}$ against wild-type *K. pneumoniae* (ATCC 10031)^[1].

[1]. Cho J, et al. Structural basis of the UDP-diacylglucosamine pyrophosphodrolase LpxH inhibition by sulfonyl piperazine antibiotics. Proc Natl Acad Sci U S A. 2020 Feb 25;117(8):4109-4116.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA